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(71) Applicant (for all designated States except US): **POWER-LASE LTD [GB/GB]**; Imperial House, Link 10, Napier Way, Crawley, West Sussex RM10 9RA (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COMLEY, Andrew, James [GB/GB]**; Imperial House, Link 10, Napier Way, Crawley, West Sussex RM10 9RA (GB). **ELLWI, Samir, Shakir [GB/GB]**; Imperial House, Link 10, Napier Way, Crawley, West Sussex RH10 9RA (GB). **HAY, Nick [GB/GB]**; Imperial House, Link 10, Napier Way, Crawley, West Sussex RH10 9RA (GB). **HENRY, Matthew [GB/GB]**; Imperial House, Link 10, Napier Way, Crawley, West Sussex RH10 9RA (GB).

(74) Agents: **ASHMEAD, Richard, John et al.**; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).

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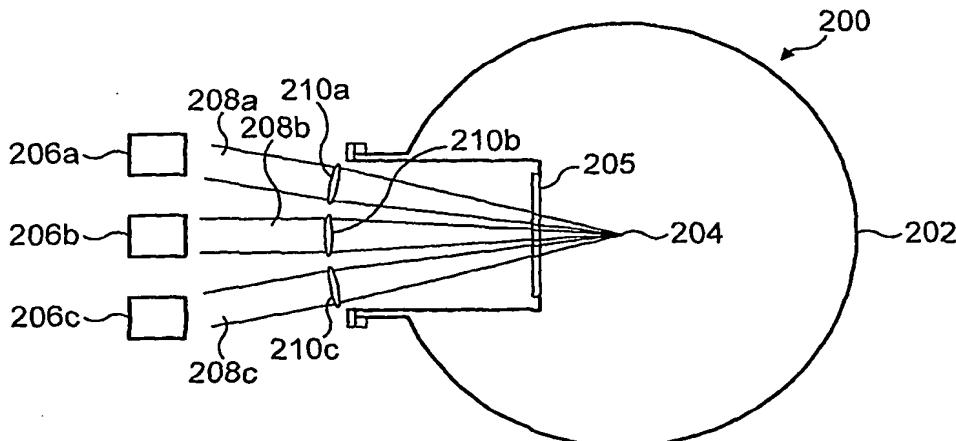
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(54) Title: LASER MULTIPLEXING



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(57) Abstract: A laser multiplexing system and method for use with high power pulsed lasers in Extreme Ultraviolet Lithography. In a first embodiment, a high power EUV laser multiplexing element (200) for laser produced plasma generation comprises a compound lens comprising at least two focusing elements (210) arranged to focus at least two respective laser beams (208) to a focal point (204) on a common workpiece. In a second embodiment, a laser multiplexing apparatus comprises at least two pulsed laser sources for generating pulsed laser beams and a temporal multiplexing element (302) arranged to temporally interleave at least two pulsed laser beams (300). In a third embodiment, laser multiplexing assembly comprises a beam shaping element (401) in which the beam shaping element is arranged to direct a first laser beam (406a) along an axis common with a second laser beam (406b) axis onto a common focussing element (405) arranged about said common axis.

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